

# S1C17 Family Products overview

Products	Display	Clock frequency			Supply current				Supply voltage [V]	Memory			I/O port	Timer							SIO					Form of delivery						
	LCD Driver segxcom	High-speed [Hz] (Max.)	Low-speed [Hz] (Max.)	Built-in oscillator [Hz] (Typ.)	Sleep [μA] (Typ.)	Halt [μA] (Typ.)	32kHz Operating [μA] (Typ.)	1MHz Operating [μA] (Typ.)		Flash ROM [Byte]	Mask ROM [Byte]	RAM [Byte]		8-bit timer	16-bit timer	16-bit PWM timer	Stopwatch	Watchdog timer	Clock	Real-time clock	UART	SPI	I <sup>2</sup> C master	I <sup>2</sup> C slave	Remote controller transmission and reception	RF converter	A/D converter	Multiplier/Divider	SVD *1	Package	Chip	
S1C17100/600/700 series		[Stand-alone Low Power] This 16-bit MCU has improved the throughput and the development environment while maintaining low power consumption just like It includes LCD driver, power circuit, clock function and various types of interfaces, and is suitable for watches, clocks, remote controllers, and healthcare devices.											4/8-bit Epson MCU.																			
S1C17121	40 × 4 36 × 8	4.2M	32.768k	2.7M	0.15	0.9	7.0	250	1.8 to 3.6	–	32K	2K	36	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP14-100 VFPGA7H-144	○	
<a href="#">S1C17611</a>	12 × 4 8 × 8	8.2M	32.768k	2.7M	TBD				1.8 to 3.6 <sub>*2</sub>	32K <sub>*3</sub>	–	2K	19	2	3	2	○	○	○	–	1	1	○	○	–	1	4	○	○	QFP12-48	○	
S1C17601	20 × 4 16 × 8	8.2M	32.768k	2.7M	0.6	2.0	12	340	1.8 to 3.6 <sub>*2</sub>	32K <sub>*3</sub>	–	2K	24	2	3	2	○	○	○	–	1	1	○	○	–	1	4	○	○	TQFP13-64 VFPGA8H-81	○	
S1C17621	40 × 4 36 × 8	8.2M	32.768k	2.7M	0.75	2.5	15	410	1.8 to 3.6 <sub>*2</sub>	32K <sub>*3</sub>	–	2K	36	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP14-100	○	
S1C17602	40 × 4 36 × 8	8.2M	32.768k	2.7M	0.75	2.5	15	410	1.8 to 3.6 <sub>*2</sub>	64K <sub>*3</sub>	–	4K	36	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP14-100 VFPGA7H-144	○	
<a href="#">S1C17622</a>	56 × 4 52 × 8	8.2M	32.768k	2.7M	1.0	2.5	TBD		1.8 to 3.6 <sub>*2</sub>	64K <sub>*3</sub>	–	4k	40	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP15-128	○	
<a href="#">S1C17604</a>	40 × 4 36 × 8	8.2M	32.768k	2.7M	1.0	2.5	TBD		1.8 to 3.6 <sub>*2</sub>	128K <sub>*3</sub>	–	8K	36	3	3	3	○	○	○	○	2	1	○	○	○	2	8	○	○	TQFP14-100	○	
<a href="#">S1C17624</a>	56 × 4 52 × 8	8.2M	32.768k	2.7M	1.0	2.5	TBD		1.8 to 3.6 <sub>*2</sub>	128K <sub>*3</sub>	–	8K	40	3	3	3	○	○	○	○	2	1	○	○	○	2	8	○	○	TQFP15-128	○	
<a href="#">S1C17711</a>	64 × 16 56 × 24	8.2M	32.768k	2.7M	1.0	2.7	TBD		1.8 to 3.6 <sub>*2</sub>	64K <sub>*3</sub>	–	4k	29	–	4	4	○	○	○	–	1	1	○	○	○	2	8	○	○	TQFP15-128 VFPGA10H-144	○	
S1C17704 (S1C17701 *5)	72 × 16 56 × 32	8.2M	32.768k	–	1.0	2.6	17 <sub>*6</sub>	550 <sub>*7</sub>	1.8 to 3.6 <sub>*2</sub>	64K <sub>*3</sub>	–	4K	28	2	3	1	○	○	○	–	1	1	○	–	○	–	–	–	○	TQFP24-144 VFPGA10H-144 VFPGA8H-161	○	
S1C17712	80 × 16 64 × 32	8.2M	32.768k	2.7M	1.0	2.5	16	450	1.8 to 3.6 <sub>*2</sub>	128K <sub>*3</sub>	–	8K	28	3	3	1	○	○	○	–	1	1	○	–	○	–	–	○	○	QFP21-176	○	
S1C17702	88 × 16 72 × 32	8.2M	32.768k	2.7M	1.0	2.5	16	450	1.8 to 3.6 <sub>*2</sub>	128K <sub>*3</sub>	–	12K	28	3	3	2	○	○	○	–	2	1	○	–	○	–	–	○	○	QFP21-176 VFPGA10H-180 VFPGA8H-181	○	
<a href="#">S1C17703</a>	128 × 16/24 120 × 32	8.2M	32.768k	2.7M	1.0	2.5	TBD		1.8 to 3.6 <sub>*2</sub>	256K <sub>*3</sub>	–	12K	35	–	5	4	○	○	○	–	2	3	○	○	○	2	8	○	○	QFP21-216	○	
S1C17705	128 × 16/24/32 64 × 64	8.2M	32.768k	2.7M	1.2	2.7	18	550	1.8 to 3.6 <sub>*4</sub>	512K <sub>*3</sub>	–	12K	35	–	5	4	○	○	○	–	2	3	○	○	○	2	8	○	○	QFP23-240 VFPGA10H-240	○	
<a href="#">S1C17706</a>	160 × 16/24/32 80 × 64	8.2M	32.768k	2.7M	TBD				1.8 to 3.6 <sub>*4</sub>	1M <sub>*3</sub>	–	12K	35	–	5	4	○	○	○	○	2	3	○	○	○	2	8	○	○	QFP22-256	○	
S1C17000 series		[Small package] The series products specialized for applications. Lineup of WCSP 48-pin packages (approx. 3-mm square) are suitable for portable gears having the Also, various types of serial interface (I/F) and A/D converters are available in sensor applications.											limited packaging area.																			
S1C17001	–	8.2M	32.768k	–	0.5	2.5	10	256	1.65 to 2.7 (Core) 1.65 to 3.6 (I/O)	–	32K	2K	28	2	3	1	○	○	○	–	1	1	○	–	○	–	–	–	–	○	QFP12-48 QFN7-48 WCSP-48	○
S1C17002	–	20M	32.768k	–	0.5	3.3	8.0	310	1.65 to 1.95 (Core) 1.65 to 3.6 (I/O)	–	128K	8K	34	8	2	1	–	○	–	○	1	1	○	○	○	–	4	○	–	○	TQFP12-64 WCSP-48	○
S1C17003	–	20M	32.768k	–	1.0	3.3	8.0	350	1.65 to 1.95 (Core) 1.65 to 3.6 (I/O)	–	64K	4K	34	3	3	1	○	○	○	–	2	1	○	○	○	–	4	○	–	○	TQFP12-64 WCSP-48	○

–: Under development

\*1: SVD is an abbreviation for Supply Voltage Detector.

\*2: During programming in flash memory: 2.7V to 3.6V

\*3: This product uses SuperFlash® technology licensed from Silicon Storage Technology, Inc.

\*4: During programming in flash memory: 2.5V to 3.6V

\*5: Executes 1 instruction/1.5 clocks

\*6: For S1C17701: 14μA

\*7: For S1C17701: 420μA